Invention Convention Handbook

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Invention Convention Requirements

1. **Brainstorming a Problem…**
   - An inventor sees a problem, and decides how they want to solve it.
   - Students should begin by brainstorming a list of problems, and what they can do to change the world around them.
   - Remember: KEEP YOUR IDEAS A SECRET UNTIL YOU APPLY FOR A PATENT… So no one can "steal" your ideas.

2. **Problem Research…**
   - An inventor researches what has already been discovered about this problem.
   - Use the books and materials provided, or use the library or internet to learn more information.

3. **Writing the Patent…**
   - The inventor writes a detailed patent report and submits it for approval. If an expert agrees that the idea is new, and original, the inventor gets a special number and "owns" this idea. No one may copy this idea from them.
   - As an inventor you will need to complete the Invention Convention Patent Application.

4. **Plan your Invention…**
   - Gathering materials to create and engineer their project
   - Inventors will sketch and label a diagram of their invention.
     - This sketch should be on a 8x11" sheet of paper, and attached to your display board.
     - All parts of the invention should be clearly labeled

5. **Build your Invention**
   - Using your gathered materials build your invention.
   - An adult may assist you, but this needs to be mostly your work.
   - Take photos and notes of the engineering process to display on your board. Make notes in your Log Book (see step 6) of any issues or other interesting events that might arise along the way.

6. **Log Book and Journaling**
   - Inventors keep notes to document the invention process while they create their inventions.
   - You will be required to write several entries discussing the steps you went through in the creation of your invention.
   - You will use the journal entry forms as part of this packet.

7. **Prepare for the "Invention Convention"**
   - Use the schematic of the tri-fold board included in this packet to create your presentation board.
   - Bring your invention with you to school.

Inventions from Kids Just Like You!

- **Catcher Cone-** Sick of your ice cream cone dripping all over your hands? The catcher cone is a drip collector that saves your hands from getting sticky!

- **Plastic Bag Rope-** Students used recycled plastic bags to create rope, which can be used in many ways. Students claimed that this would help our world by cutting down on waste.

- **Recycled Clothing Blankets-** Students used old clothing to create blankets that were donated to the homeless and those effected by natural disasters.

- **All Purpose Banana-** Students created a Swiss Army type contraption, using a banana as the base. When you are done with your tools, you can eat the banana!

- **Helping Hands-** A student watched his mom struggle to wash the dishes each night. He invented dishwashing gloves with scrubbers and sponges built right in! How smart!

- **Automatic Cereal and Milk Dispenser** – Students created a working machine that dispensed both milk and cereal! Students claimed that this helped get ready for school faster, and saved their mom the stress of getting their breakfast ready!

Begin to notice some everyday problems all around you…
Big and small!
What solutions can you think of????

Invention Convention
Schedule 2024

Tuesday, January 16	I.C. packets go home with students. They should be kept in the D.S. (expandable file folder) under the Science tab.
Friday, January 19	I.C. Student Contract due (p. 8 of packet)
Wednesday, January 24	Patent Application due (p. 9 and 10 of packet)
Friday, January 26	Patents returned to students - check home folder.
Friday, February 9	Progress Report due (p. 11 of packet)
Tuesday, February 13	Blank trifold display board due (may be turned in early). We will decorate and add information to the boards during class.
Monday, March 4	Completed inventions due.
Wednesday, March 6	Invention Convention 1:30 p.m. - 2:30 p.m. in the Middle School MPR Parents and families are invited to join us!

I, _____, will submit my invention
Child's Name
and Inventor's Log for the Invention Convention due on:

_____. I understand that this is a ***requirement*** and

I must follow the directions outlined in this handbook.

I further understand that failure to follow all directions and instructions in this guide will affect my final project grade.

Class: _____

Student's Name _____

Student's Signature _____

Parent's Name _____

Parent's Signature _____

Patent Application
Invention Convention

Inventor's Name: _____

Date of Application: _____

Name of Invention: _____

The problem that my invention will solve and how this invention will change the world:

_____
_____
_____
_____
_____
_____
_____
_____

Description of Invention:

_____
_____
_____
_____
_____
_____

Materials List:

_____
_____
_____
_____
_____
_____

Simple sketch of the Invention:

Inventor's Signature: _____

Inventor's Parent Signature :_____

F.A. Official's Approval (Teacher) :_____

Official Patent Number: _____

Notes from the Office of Patents:

_____
_____
_____
_____

Invention Convention Progress Report

Name: _____

Please fill out this document and return to school by _____.

Directions: Check "yes" or "no" for each item. If you check "no" for any item, please provide an explanation in the comment field.

	Yes	No	Comment
Have you gathered all your materials you will need for your invention?			
Have you begun creating your invention?			
Are you taking photos of your invention and progress?			
Have you been writing in your Inventor's Log?			
Have you begun your diagram with labels?			
Have you begun assembling your presentation board?			
Are there any issues or problems your teacher should know about?			(If "YES" please explain here)

Inventor's Journal:

For this part of the assignment, you will need to provide a minimum of five entries discussing the process you went through in the creation of your invention. Each entry should be dated, and should be about a page long.

Do NOT leave this to the last minute – you should be doing a little bit each time you work on another part of your invention.

You may use the pages provided as part of this handbook, or you may type your entries.

Possible Journal Topics:

- How you came up with your idea
- What you worked on each day
- Where you got your supplies
- People who helped you with your project
- Research materials you found helpful
- Problems you encountered along the way
- Steps you went through during this process

Your writing should be clearly understood by the reader. Use your best spelling, grammar, and punctuation. This is part of your overall grade!

Inventor's Journal:

This Journal Belongs To: _____

Date: _____

Inventor's Journal:

This Journal Belongs To: _____

Date: _____

Inventor's Journal:

This Journal Belongs To: _____

Date: _____